October 24, 2017
Discharge Monitoring Report #168
(117-3005011.21)

Mr. Ralph Erickson, Pretreatment Coordinator
Madison Metropolitan Sewerage District
1610 Moorland Road
Madison, WI 53713-3398

RE: September 2017 Discharge Monitoring Report, Hydraulic Barrier System, Hydrite Chemical Co., Cottage Grove, Wisconsin

Dear Mr. Erickson:

Tetra Tech, on behalf of Hydrite Chemical Co., has prepared this discharge monitoring report to comply with the reporting requirements listed in Part 3 of the reissued Wastewater Discharge Permit for the Hydrite Chemical Co. Cottage Grove facility Hydraulic Barrier System (Permit No. NTO-88.06). This report provides information on the operation history and discharge monitoring results for the Hydraulic Barrier System for the month of September 2017. The following information is being provided in accordance with Section 3.01 of Part 3 (Reporting) of the reissued Wastewater Discharge Permit:

- Sample Type: Groundwater

- Place sample collected: Sample tap on the hydraulic barrier system effluent line located in the manhole east of the 110 South Main Street lift station.

- Date and time that the sample was collected: September 27, 2017 at 2:10 PM.

- The person that collected the sample: Todd Thomson, Environmental Technician, Tetra Tech.

- The persons and laboratory performing the analyses: Pace Analytical Services Chemists, Pace Analytical Services, Inc., Green Bay, Wisconsin.

- Dates the analyses were performed and analytical techniques used:
  Analyses performed by Pace Analytical Services, Inc.:
  1. EPA Method 8260 for Volatile Organic Compounds (VOCs), September 29, 2017.
  2. Method SM 2540D for Total Suspended Solids (TSS), October 3, 2017
  3. Method 5210B Carbonaceous Biochemical Oxygen Demand, 5 day (cBOD), October 3, 2017.
  4. EPA Method 300.0 for Chloride, October 3, 2017.

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175 N. Corporate Drive, Suite 100, Brookfield, WI 53045
Tel 262.792.1282 Fax 262.792.1310 www.tetratech.com

5. EPA Method 351.2 for total Kjeldahl Nitrogen, October 3, 2017.
6. EPA Method 365.4 for Total Phosphorus, October 3, 2017.

Analysis performed in the field by Tetra Tech personnel:

1. Field pH, September 27, 2017.
   The effluent sampling and analysis form containing the field pH result for the effluent sample and the equipment calibration form documenting the successful calibration of the instrument used to measure the effluent sample pH in the field are included in Attachment A.

- The laboratory analytical results for the monthly effluent sample collected from the hydraulic barrier system during this reporting period are included in Attachment A to this report and are summarized on Table 1 and Table 2.

- Total VOCs time series charts for the effluent samples collected from the hydraulic barrier system are provided as Chart 1 and Chart 2. Chart 1 displays the total VOCs concentrations and average pumping rates for the barrier system from 2003 to present, which is the year the barrier system was brought on-line. Chart 2 displays the total VOCs concentrations and average pumping rates for the barrier system from 2008 to present. A chart showing the total mass of VOCs and chlorinated VOCs discharged to the sanitary sewer is provided as Chart 3.

- The current month discharge and cumulative total discharge volumes are provided below:

Reporting Period	Groundwater Discharge Volume (gallons)
September 2017 Discharge Volume (August 31 through September 30, 2017)	4,767,036
Cumulative Total Discharge Volume (October 8, 2003 through September 30, 2017)	792,502,996

Hydraulic Barrier System Operation and Maintenance History for the Month of September 2017

Groundwater was pumped from extraction wells P-128, P-130, and P-164 during this reporting period. Total flow readings taken from the 3-inch Badger Magnetoflow® electromagnetic water meter (mag meter) indicate the hydraulic barrier system operated at an average pumping rate of 114 gallons per minute (gpm) in September.

Tetra Tech personnel treated extraction well P-164 with muriatic acid solution September 19th to September 21st to maintain the sustainable pumping rate of the well at the target rate of 50 to 55 gpm. Approximately 3 gallons of muriatic acid was poured into P-164 with the pump off followed by about 2 gallons of tap water. The pump was kept off for approximately 47 hours to allow the muriatic solution to break down the slime bacteria build-up in the well and pump components. Extraction wells P-128 and P-130 were operating while P-164 was shut down for the muriatic acid solution treatment except for the period when the barrier system was shut down due to an issue with the lift station pumps, which is described below.

Based on meter readings collected from the water meters in the manholes at extraction wells P-128 and P-130 and the total barrier system flow readings from the mag meter, the extraction wells operated at the pumping rates listed below during this reporting period:

<u>Extraction Wells Pumping Rates for September 2017</u>

- P-128: 26.1 to 25.9 gpm.
  The pumping rate in P-128 was reduced by Tetra Tech personnel on August 31st to maintain the total system pumping rate at its target rate of 120 to 125 gpm.
- P-130: 26.5 to 27.0 gpm
- P-164: 60.4 to 68.6 gpm (No pumping from P-164 for about 47 hours September 19th – 21st.)

Occasions when the barrier system was shut down and re-started are listed below:

- Village of Cottage Grove Public Works Department personnel performed tests of the backup generator in the 110 South Main Street lift station building on September 5th and September 19th. The hydraulic barrier system automatically shut down during the generator tests and was re-started the same day by Tetra Tech personnel after the generator tests were completed.

- The barrier system automatically shut down at 10:55 am on Monday, September 11th due to the failure of lift station pump #2. The barrier system was re-started the same day by Tetra Tech personnel at 6:00 pm after the pump was repaired by Village of Cottage Grove Public Works Department personnel.

- A plugged checked valve on lift station pump #1 caused an automatic shut-down of the barrier system at 7:05 am on Wednesday, September 20th. The barrier system was re-started the same day by Hydrite Chemical personnel at 8:00 am after the plugged check valve was cleared by Village of Cottage Grove Public Works Department personnel.

This report was prepared by,

Tetra Tech

Associate Hydrogeologist
encl.
cc: Mr. JJ Larson - Village of Cottage Grove (Electronic copy via email.)
Mr. Chris Hampton – Town of Cottage Grove
Mr. Thomas J. Miazga - Hydrite Chemical Co.
Mr. Raymond R. Krueger - Michael, Best & Friedrich, LLP
Mr. Michael R. Schmoller – Wisconsin Department of Natural Resources (Electronic copy via email.)

TABLES
AND CHARTS

Table 1. Summary of Hydraulic Barrier System Effluent Monitoring VOCs and Chloride Analytical Results, Hydrite Chemical Co., Cottage Grove Facility

Sample Identification					EFFLUENT	
Lab Sample Identification					40157554018	
Date Sample Collected					09/27/17	
Dilution Factor for VOCs					10	
COMPOUND	Units	Detection Limits	NR140 ES	NR140 PAL		
1,1,1-Trichloroethane	ug/L	0.50	200	40	136	
2-Butanone (MEK)	ug/L	3.0	460	90		U
4-Methyl-2-Pentanone (MIBK)	ug/L	2.1	500	50		U
Acetone	ug/L	3.0	1000	200		U
cis-1,2-Dichloroethene	ug/L	0.26	70	7	1210	
Methylene chloride	ug/L	0.23	5.0	0.5	23.8	
Tetrachloroethene	ug/L	0.50	5.0	0.5	8.6	J
Toluene	ug/L	0.50	1000	200	247	
Trichloroethene	ug/L	0.33	5.0	0.5	34.2	
Vinyl chloride	ug/L	0.18	0.2	0.02	59.5	
Xylenes (total)	ug/L	2.6	10000	1000	130	
TOTAL VOCs	ug/L				1849.1	
Total Chlorinated VOCs	ug/L				1472.1	
Chloride	mg/L	2.5	250	125	39.4	

Notes:
VOCs - Volatile organic compounds.
Blank spaces indicate the compound was analyzed but not detected. The detection limits for the VOCs are equal to the target detection limits multiplied by the corresponding dilution factor for each sample.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MO - Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 - Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
U - Indicates the compound was analyzed but not detected.
X - Analyte was above the QC limits for the continuing calibration check.
ug/L - micrograms per liter which is equivalent to parts per billion (ppb)
NR140 ES - The compound's Enforcement Standard as listed in Chapter NR140 of the Wisconsin Administrative Code.
NR140 PAL - The compound's Preventive Action Limit as listed in Chapter NR140 of the Wisconsin Administrative Code.
Madison Metropolitan Sewerage District Total VOCs discharge limit for hydraulic barrier system = 10,000 ug/L or 10 mg/L (as of 12/13/2016).
The Madison Metroplitan Sewerage District set no discharge limit for chloride, but it is a parameter of concern.
"Effluent" samples are collected from the sample spigot on the combined effluent discharge line for the barrier system located in the manhole by the Village of Cottage Grove lift station.

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Table 2. Summary of Hydraulic Barrier System Effluent Monitoring Inogranic Parameters Analytical Results, Hydrite Chemical Co., Cottage Grove Facility

Sample Identification		EFFLUENT
Lab Sample Identification		40157554018
Date Sample Collected		09/27/17
Parameter	Units	
Carbonaceous Biochemical Oxygen Demand (cBOD)	mg/L	<2.0
Nitrogen, Total Kjeldahl	mg/L	<0.22
Phosphorus	mg/L	<0.052
Total Suspended Solids	mg/L	<0.95

Notes: mg/L - milligrams per liter, which is equivalent to parts per million.
H1 - Analysis conducted outside the recognized method holding time.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
B - The compound was detected in an associated field blank, trip blank or method blank as well as in the sample at a similar concentration.
D3 - Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
N - Spiked sample recovery not within control lilmits
Q - Qualitative mass spectral evidence of analyte present; concentration is between the detection limit and limit of quantitation.
<2.0 - The compound was analyzed but not detected above its method detection limit of 2.0 ug/L.

Chart 1. Hydrite Chemical Co. Hydraulic Barrier System MMSD List Total VOCs and Average Pumping Rate Time Series Chart (2003 to Present)

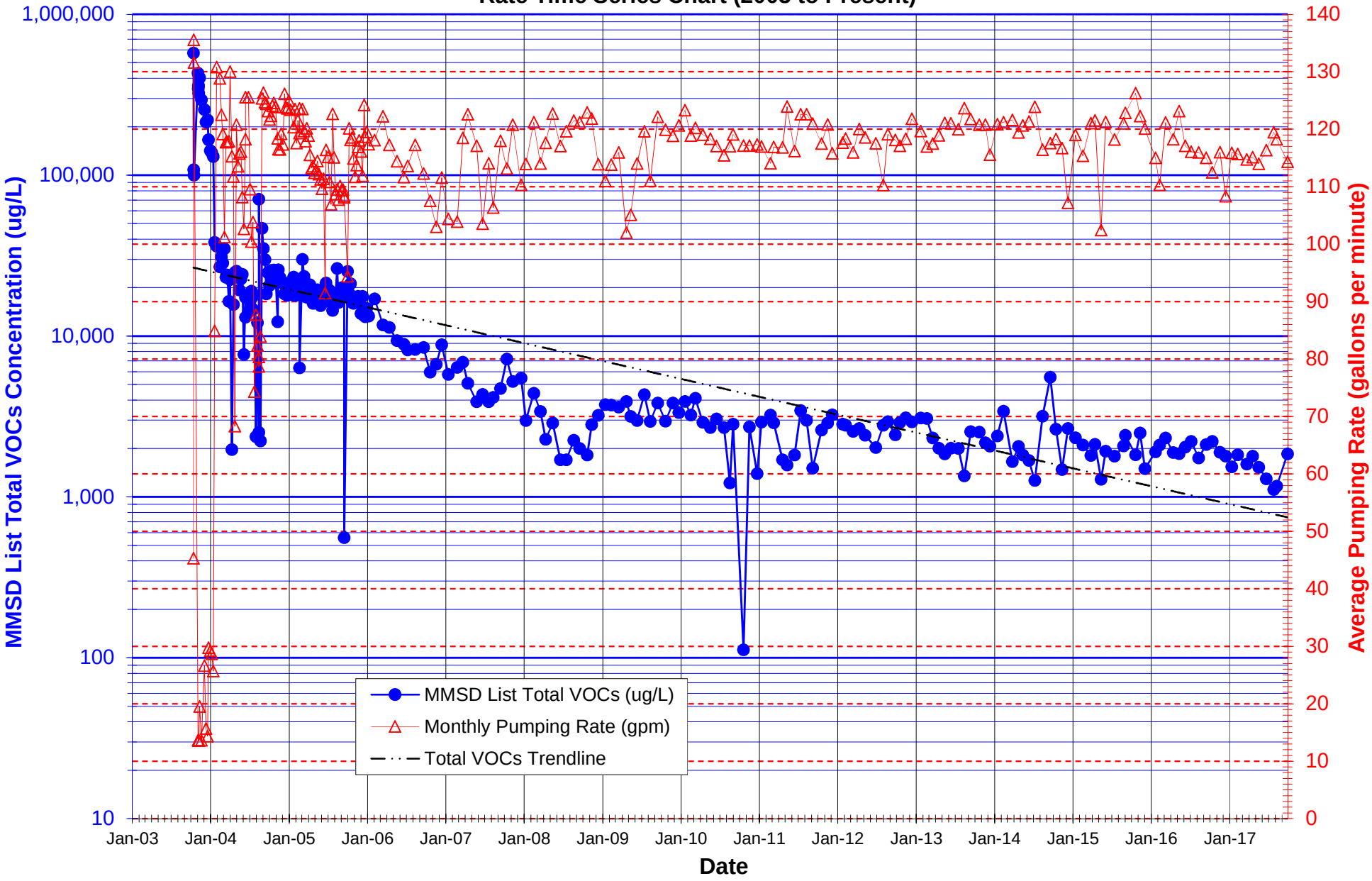

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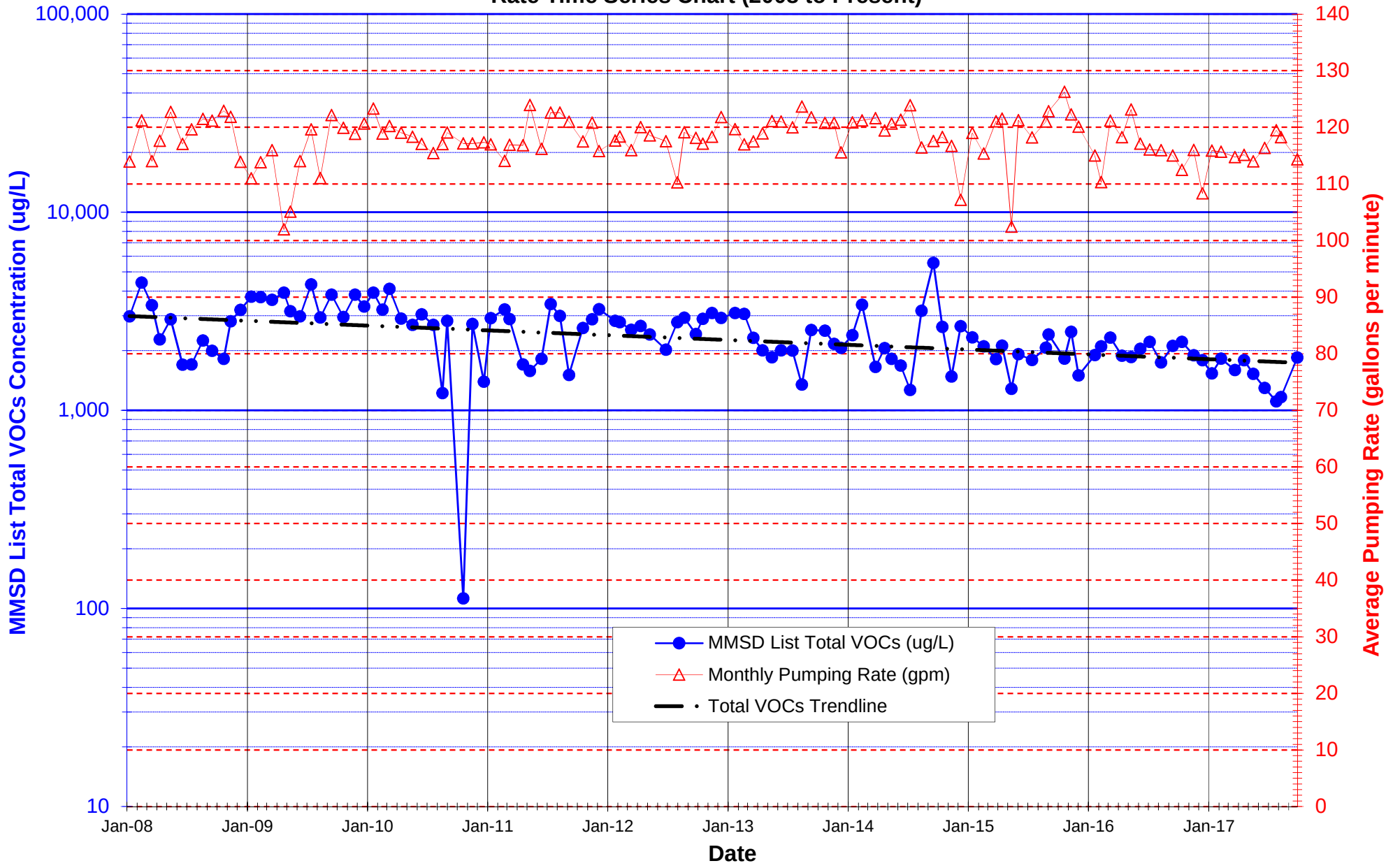
Chart 2. Hydrite Chemical Co. Hydraulic Barrier System MMSD List Total VOCs and Average Pumping Rate Time Series Chart (2008 to Present)



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ATTACHMENT A
HYDRAULIC BARRIER SYSTEM
EFFLUENT SAMPLE FIELD FORMS AND
LABORATORY ANALYTICAL REPORT

TETRA TECH GEO REMEDIATION SYSTEM EFFLUENT WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Hydrite Chemical Co., Cottage Grove Facility Layer 5 Hydraulic Barrier System Monitoring	Temp. & pH	HONNA
PROJECT NO.	117-3005011.21	Conductivity	HONNA
LOCATION	Cottage Grove, WI	ORP	NA
PERSONNEL	Todd M. Thompson	DO	NA

SAMPLE ID	Effluent			
WATER TYPE	Groundwater			
DATE (month/day/year)	9-27-17			
CLOCK TIME (Military)	14:10			
FLOW METER READING (gallons)	62584688			
FLOW RATE (gpm)*	121.6			
SAMPLING DEVICE	Sample Spigot on 6-inch discharge line			
FIELD TEMPERATURE (°C)	13.9			
pH	7.16			
ELECTRICAL CONDUCTIVITY at 25° C (uS/cm)	725			
COLOR	CLEAR			
ODOR	NONE			
CLARITY	CLEAR			
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)			
TCL VOCs (Method SW846 8260B)	3-40 ml; G; HCl-L; No			
Chloride (Method 300.0)	250-ml; P; None; No			
Carbonaceous Biochemical Oxygen Demand (CBOD, 5 day) (Method SM 5210B)	1-liter; P; None; No	*48-hour hold time.		
Nitrogen, Total Kjeldahl (EPA Method 351.2), & Phosphorus (EPA Method 365.4)	1-500 ml; P; H_2SO_4-L; No			
Total Suspended Solids (Method SM 2540D)	1-liter; P; None; No			
NAME OF LABORATORY	Pace Analytical			
DATE SENT TO LAB	9-27-17			
SAMPLER'S NAME	Todd M. Thompson			

Note: gpm = gallons per minute

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TETRA TECH EQUIPMENT CALIBRATION FORM

Equipment Make	HANNA Instruments
Equipment Model	HI 98129 pH/EC/TDC/Temperature Meter
Tetra Tech GEO ID Number	1

DATE	TIME	CALIBRATION MEDIA	RESULTS	COMMENTS
6-28-17	14:10	pH 4.0 and pH 7.0 buffer solutions	Calibration successful	
6-28-17	14:10	1,413 µs conductivity calibration solution	Calibration successful	
7-25-17	12:20	pH 4.0 and pH 7.0 buffer solutions	Calibration successful	
7-25-17	12:20	1,413 µs conductivity calibration solution	Calibration successful	
8-8-17	13:30	pH 4.0 and pH 7.0 buffer solutions	Calibration successful	
8-8-17	13:30	1,413 µs conductivity calibration solution	Calibration successful	
9-27-17	08:40	pH 4.0 and pH 7.0 buffer solutions	Calibration successful	
9-27-17	08:40	1,413 µs conductivity calibration solution	Calibration successful	
		pH 4.0 and pH 7.0 buffer solutions	Calibration successful	
		1,413 µs conductivity calibration solution	Calibration successful	

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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October 12, 2017

Mark Manthey
Tetra Tech Geo
175 North Corporate Drive
Suite 100
Brookfield, WI 53045

RE: Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Dear Mark Manthey:
Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157554001	**P-154**	Water	09/26/17 11:20	09/28/17 10:15
40157554002	**P-156**	Water	09/26/17 11:30	09/28/17 10:15
40157554003	**P-116**	Water	09/26/17 12:00	09/28/17 10:15
40157554004	**MW-87**	Water	09/26/17 13:30	09/28/17 10:15
40157554005	**P-88**	Water	09/26/17 13:40	09/28/17 10:15
40157554006	**P-135**	Water	09/26/17 14:10	09/28/17 10:15
40157554007	**P-140**	Water	09/26/17 14:30	09/28/17 10:15
40157554008	**MW-86**	Water	09/26/17 15:00	09/28/17 10:15
40157554009	**MW-86 DUP**	Water	09/26/17 15:05	09/28/17 10:15
40157554010	**P-68**	Water	09/26/17 15:30	09/28/17 10:15
40157554011	**P-161**	Water	09/27/17 11:10	09/28/17 10:15
40157554012	**P-129**	Water	09/27/17 11:40	09/28/17 10:15
40157554013	**PDB-FB**	Water	09/27/17 13:10	09/28/17 10:15
40157554014	**VILLAGEWELLNO. 2**	Water	09/27/17 09:10	09/28/17 10:15
40157554015	**P-130**	Water	09/27/17 10:50	09/28/17 10:15
40157554016	**P-128**	Water	09/27/17 12:55	09/28/17 10:15
40157554017	**P-164**	Water	09/27/17 13:40	09/28/17 10:15
40157554018	**EFFLUENT**	Water	09/27/17 14:10	09/28/17 10:15
40157554019	**TB-2**	Water	09/27/17 00:00	09/28/17 10:15

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SAMPLE ANALYTE COUNT

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40157554001	**P-154**	EPA 8260	HNW	38	PASI-G
40157554002	**P-156**	EPA 8260	HNW	38	PASI-G
40157554003	**P-116**	EPA 8260	HNW	38	PASI-G
40157554004	**MW-87**	EPA 8260	HNW	38	PASI-G
40157554005	**P-88**	EPA 8260	HNW	38	PASI-G
40157554006	**P-135**	EPA 8260	HNW	38	PASI-G
40157554007	**P-140**	EPA 8260	HNW	38	PASI-G
40157554008	**MW-86**	EPA 8260	HNW	38	PASI-G
40157554009	**MW-86 DUP**	EPA 8260	HNW	38	PASI-G
40157554010	**P-68**	EPA 8260	HNW	38	PASI-G
40157554011	**P-161**	EPA 8260	HNW	38	PASI-G
40157554012	**P-129**	EPA 8260	HNW	38	PASI-G
40157554013	**PDB-FB**	EPA 8260	HNW	38	PASI-G
40157554015	**P-130**	EPA 8260	HNW	38	PASI-G
40157554016	**P-128**	EPA 8260	HNW	38	PASI-G
40157554017	**P-164**	EPA 8260	HNW	38	PASI-G
40157554018	**EFFLUENT**	EPA 8260	HNW	38	PASI-G
		SM 2540D	JMN	1	PASI-G
		SM 5210B	DDY	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
40157554019	**TB-2**	EPA 8260	HNW	38	PASI-G

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PROJECT NARRATIVE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Method: **EPA 8260**
Description: 8260 MSV
Client: Tetra Tech GEO - Brookfield
Date: October 12, 2017

General Information:
18 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: Tetra Tech GEO - Brookfield
Date: October 12, 2017

General Information:
1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 269323

R1: RPD value was outside control limits.

- DUP (Lab ID: 1582391)
  - Total Suspended Solids

Additional Comments:

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PROJECT NARRATIVE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Method: **SM 5210B**
Description: 5210B cBOD, 5 day
Client: Tetra Tech GEO - Brookfield
Date: October 12, 2017

General Information:
1 sample was analyzed for SM 5210B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM 5210B with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Tetra Tech GEO - Brookfield
Date: October 12, 2017

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Tetra Tech GEO - Brookfield
Date: October 12, 2017

General Information:
1 sample was analyzed for EPA 351.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 269346

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157554018,40157561001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 1582544)
  - Nitrogen, Kjeldahl, Total

Additional Comments:

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PROJECT NARRATIVE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Method: **EPA 365.4**
Description: 365.4 Total Phosphorus
Client: Tetra Tech GEO - Brookfield
Date: October 12, 2017

General Information:
1 sample was analyzed for EPA 365.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 269965

1q: Analyte was measured in the associated method blank at a concentration of -0.079 mg/L.

- EFFLUENT (Lab ID: 40157554018)
  - Phosphorus

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Sample: EFFLUENT **Lab ID: 40157554018** Collected: 09/27/17 14:10 Received: 09/28/17 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<29.5**	ug/L	200	29.5	10		09/29/17 12:45	67-64-1	
Benzene	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	71-43-2	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		09/29/17 12:45	74-83-9	
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		09/29/17 12:45	78-93-3	
Carbon disulfide	**<6.1**	ug/L	50.0	6.1	10		09/29/17 12:45	75-15-0	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	108-90-7	
Chloroethane	**169**	ug/L	10.0	3.7	10		09/29/17 12:45	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		09/29/17 12:45	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	124-48-1	
1,1-Dichloroethane	**449**	ug/L	10.0	2.4	10		09/29/17 12:45	75-34-3	
1,2-Dichloroethane	**2.9J**	ug/L	10.0	1.7	10		09/29/17 12:45	107-06-2	
1,1-Dichloroethene	**74.0**	ug/L	10.0	4.1	10		09/29/17 12:45	75-35-4	
cis-1,2-Dichloroethene	**1210**	ug/L	10.0	2.6	10		09/29/17 12:45	156-59-2	
trans-1,2-Dichloroethene	**4.1J**	ug/L	10.0	2.6	10		09/29/17 12:45	156-60-5	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		09/29/17 12:45	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		09/29/17 12:45	10061-02-6	
Ethylbenzene	**28.5**	ug/L	10.0	5.0	10		09/29/17 12:45	100-41-4	
2-Hexanone	**<11.1**	ug/L	50.0	11.1	10		09/29/17 12:45	591-78-6	
Methylene Chloride	**23.8**	ug/L	10.0	2.3	10		09/29/17 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<21.4**	ug/L	50.0	21.4	10		09/29/17 12:45	108-10-1	
Styrene	**<5.0**	ug/L	10.0	5.0	10		09/29/17 12:45	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		09/29/17 12:45	79-34-5	
Tetrachloroethene	**8.6J**	ug/L	10.0	5.0	10		09/29/17 12:45	127-18-4	
Toluene	**247**	ug/L	10.0	5.0	10		09/29/17 12:45	108-88-3	
1,1,1-Trichloroethane	**136**	ug/L	10.0	5.0	10		09/29/17 12:45	71-55-6	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		09/29/17 12:45	79-00-5	
Trichloroethene	**34.2**	ug/L	10.0	3.3	10		09/29/17 12:45	79-01-6	
Vinyl acetate	**<9.2**	ug/L	50.0	9.2	10		09/29/17 12:45	108-05-4	
Vinyl chloride	**59.5**	ug/L	10.0	1.8	10		09/29/17 12:45	75-01-4	
Xylene (Total)	**130**	ug/L	30.0	15.0	10		09/29/17 12:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		10		09/29/17 12:45	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		10		09/29/17 12:45	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		09/29/17 12:45	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/03/17 10:52		
5210B cBOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B								
Carbonaceous BOD, 5 day	**<2.0**	mg/L	2.0	2.0	1	09/29/17 07:00	10/04/17 11:31		

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ANALYTICAL RESULTS

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Sample: EFFLUENT **Lab ID: 40157554018** Collected: 09/27/17 14:10 Received: 09/28/17 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**39.4**	mg/L	2.0	0.50	1		10/03/17 14:55	16887-00-6	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**<0.22**	mg/L	0.73	0.22	1	10/03/17 14:07	10/03/17 19:24	7727-37-9	M0
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus	**<0.052**	mg/L	0.40	0.052	1	10/10/17 09:20	10/10/17 14:07	7723-14-0	1q

Sample: TB-2 **Lab ID: 40157554019** Collected: 09/27/17 00:00 Received: 09/28/17 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<3.0**	ug/L	20.0	3.0	1		09/29/17 16:51	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/29/17 16:51	74-83-9	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		09/29/17 16:51	78-93-3	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		09/29/17 16:51	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/29/17 16:51	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/29/17 16:51	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	124-48-1	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/29/17 16:51	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/29/17 16:51	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/29/17 16:51	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/29/17 16:51	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/29/17 16:51	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/29/17 16:51	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/29/17 16:51	10061-02-6	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	100-41-4	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		09/29/17 16:51	591-78-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/29/17 16:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		09/29/17 16:51	108-10-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/29/17 16:51	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	108-88-3	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/29/17 16:51	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/29/17 16:51	79-00-5	

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ANALYTICAL RESULTS

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Sample: TB-2 **Lab ID: 40157554019** Collected: 09/27/17 00:00 Received: 09/28/17 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/29/17 16:51	79-01-6	
Vinyl acetate	**<0.92**	ug/L	5.0	0.92	1		09/29/17 16:51	108-05-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/29/17 16:51	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		09/29/17 16:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		09/29/17 16:51	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		09/29/17 16:51	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/29/17 16:51	2037-26-5	

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

QC Batch: 268988 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 40157554001, 40157554002, 40157554003, 40157554004, 40157554005, 40157554006, 40157554007, 40157554008, 40157554009, 40157554010, 40157554011, 40157554012, 40157554013, 40157554015, 40157554016, 40157554017, 40157554018, 40157554019

METHOD BLANK: 1580431 | Matrix: Water
Associated Lab Samples: 40157554001, 40157554002, 40157554003, 40157554004, 40157554005, 40157554006, 40157554007, 40157554008, 40157554009, 40157554010, 40157554011, 40157554012, 40157554013, 40157554015, 40157554016, 40157554017, 40157554018, 40157554019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/29/17 08:37	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/29/17 08:37	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/29/17 08:37	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/29/17 08:37	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/29/17 08:37	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/29/17 08:37	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/29/17 08:37	
2-Butanone (MEK)	ug/L	<3.0	20.0	09/29/17 08:37	
2-Hexanone	ug/L	<1.1	5.0	09/29/17 08:37	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	09/29/17 08:37	
Acetone	ug/L	<3.0	20.0	09/29/17 08:37	
Benzene	ug/L	<0.50	1.0	09/29/17 08:37	
Bromodichloromethane	ug/L	<0.50	1.0	09/29/17 08:37	
Bromoform	ug/L	<0.50	1.0	09/29/17 08:37	
Bromomethane	ug/L	<2.4	5.0	09/29/17 08:37	
Carbon disulfide	ug/L	<0.61	5.0	09/29/17 08:37	
Carbon tetrachloride	ug/L	<0.50	1.0	09/29/17 08:37	
Chlorobenzene	ug/L	<0.50	1.0	09/29/17 08:37	
Chloroethane	ug/L	<0.37	1.0	09/29/17 08:37	
Chloroform	ug/L	<2.5	5.0	09/29/17 08:37	
Chloromethane	ug/L	<0.50	1.0	09/29/17 08:37	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/29/17 08:37	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/29/17 08:37	
Dibromochloromethane	ug/L	<0.50	1.0	09/29/17 08:37	
Ethylbenzene	ug/L	<0.50	1.0	09/29/17 08:37	
Methylene Chloride	ug/L	<0.23	1.0	09/29/17 08:37	
Styrene	ug/L	<0.50	1.0	09/29/17 08:37	
Tetrachloroethene	ug/L	<0.50	1.0	09/29/17 08:37	
Toluene	ug/L	<0.50	1.0	09/29/17 08:37	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/29/17 08:37	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/29/17 08:37	
Trichloroethene	ug/L	<0.33	1.0	09/29/17 08:37	
Vinyl acetate	ug/L	<0.92	5.0	09/29/17 08:37	
Vinyl chloride	ug/L	<0.18	1.0	09/29/17 08:37	
Xylene (Total)	ug/L	<1.5	3.0	09/29/17 08:37	
4-Bromofluorobenzene (S)	%	88	61-130	09/29/17 08:37	
Dibromofluoromethane (S)	%	109	67-130	09/29/17 08:37	
Toluene-d8 (S)	%	97	70-130	09/29/17 08:37	

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

LABORATORY CONTROL SAMPLE: 1580432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	54.4	109	71-132	
1,1-Dichloroethene	ug/L	50	49.6	99	75-130	
1,2-Dichloroethane	ug/L	50	53.4	107	70-131	
1,2-Dichloropropane	ug/L	50	49.7	99	80-120	
Benzene	ug/L	50	51.0	102	73-145	
Bromodichloromethane	ug/L	50	53.5	107	70-130	
Bromoform	ug/L	50	53.7	107	67-130	
Bromomethane	ug/L	50	39.3	79	26-128	
Carbon disulfide	ug/L	50	48.4	97	72-156	
Carbon tetrachloride	ug/L	50	57.7	115	70-133	
Chlorobenzene	ug/L	50	54.7	109	70-130	
Chloroethane	ug/L	50	45.0	90	58-120	
Chloroform	ug/L	50	55.0	110	80-121	
Chloromethane	ug/L	50	30.9	62	40-127	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	70-130	
Dibromochloromethane	ug/L	50	53.7	107	70-130	
Ethylbenzene	ug/L	50	53.2	106	87-129	
Methylene Chloride	ug/L	50	51.0	102	70-130	
Styrene	ug/L	50	52.1	104	70-130	
Tetrachloroethene	ug/L	50	55.1	110	70-130	
Toluene	ug/L	50	51.3	103	82-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	75-132	
trans-1,3-Dichloropropene	ug/L	50	46.4	93	70-130	
Trichloroethene	ug/L	50	52.5	105	70-130	
Vinyl chloride	ug/L	50	35.2	70	57-136	
Xylene (Total)	ug/L	150	161	107	70-130	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			107	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1580443 1580444

Parameter	Units	40157554004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.7	50.6	107	101	70-134	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	52.7	50.2	105	100	70-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.6	51.2	107	102	70-130	5	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	54.6	52.5	109	105	71-133	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	50.0	46.3	100	93	75-136	8	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	53.9	51.5	108	103	70-131	5	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	50.2	48.1	100	96	80-120	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1580443 1580444

Parameter	Units	40157554004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	50.8	48.6	102	97	73-145	4	20	
Bromodichloromethane	ug/L	<0.50	50	50	53.7	51.1	107	102	70-130	5	20	
Bromoform	ug/L	<0.50	50	50	53.7	51.1	107	102	67-130	5	20	
Bromomethane	ug/L	<2.4	50	50	43.7	44.8	87	89	26-129	3	20	
Carbon disulfide	ug/L	<0.61	50	50	48.6	45.9	97	92	72-156	6	30	
Carbon tetrachloride	ug/L	<0.50	50	50	56.7	53.0	113	106	70-134	7	20	
Chlorobenzene	ug/L	<0.50	50	50	54.8	52.2	110	104	70-130	5	20	
Chloroethane	ug/L	<0.37	50	50	45.4	42.9	91	86	58-120	6	20	
Chloroform	ug/L	<2.5	50	50	54.0	52.0	108	104	80-121	4	20	
Chloromethane	ug/L	<0.50	50	50	30.3	30.1	60	59	40-128	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.3	48.1	101	96	70-130	5	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.3	45.4	95	91	70-130	4	20	
Dibromochloromethane	ug/L	<0.50	50	50	54.4	51.4	109	103	70-130	6	20	
Ethylbenzene	ug/L	<0.50	50	50	52.9	50.5	106	101	87-129	5	20	
Methylene Chloride	ug/L	<0.23	50	50	50.9	48.9	102	98	70-130	4	20	
Styrene	ug/L	<0.50	50	50	51.7	49.7	103	99	70-130	4	20	
Tetrachloroethene	ug/L	<0.50	50	50	54.6	51.4	109	103	70-130	6	20	
Toluene	ug/L	<0.50	50	50	51.4	49.1	103	98	82-131	5	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.9	51.1	106	102	75-135	4	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.6	44.5	93	89	70-130	5	20	
Trichloroethene	ug/L	<0.33	50	50	52.8	49.7	106	99	70-130	6	20	
Vinyl chloride	ug/L	<0.18	50	50	35.7	33.9	71	68	56-143	5	20	
Xylene (Total)	ug/L	<1.5	150	150	159	152	106	102	70-130	4	20	
4-Bromofluorobenzene (S)	%						99	98	61-130			
Dibromofluoromethane (S)	%						108	107	67-130			
Toluene-d8 (S)	%						99	100	70-130			

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

QC Batch: 269323 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40157554018

METHOD BLANK: 1582388 | Matrix: Water
Associated Lab Samples: 40157554018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/03/17 10:52	

LABORATORY CONTROL SAMPLE: 1582389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	108	108	80-120	

SAMPLE DUPLICATE: 1582390

Parameter	Units	40157569001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	19.2	18.8	2	5	

SAMPLE DUPLICATE: 1582391

Parameter	Units	40157629002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3.6	3.4	6	5	R1

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

QC Batch: 269017 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B cBOD, 5 day
Associated Lab Samples: 40157554018

METHOD BLANK: 1580575 | Matrix: Water
Associated Lab Samples: 40157554018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Carbonaceous BOD, 5 day	mg/L	<2.0	2.0	10/04/17 11:26	

LABORATORY CONTROL SAMPLE & LCSD: 1580577 1580578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbonaceous BOD, 5 day	mg/L	198	221	210	112	106	84.6-115	5	20	

LABORATORY CONTROL SAMPLE & LCSD: 1580577 1580580

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbonaceous BOD, 5 day	mg/L	198	221	213	112	107	84.6-115	4	20	

SAMPLE DUPLICATE: 1580579

Parameter	Units	40157524001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbonaceous BOD, 5 day	mg/L	2.1	<2.0		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

QC Batch: 269019 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40157554018

METHOD BLANK: 1580593 | Matrix: Water
Associated Lab Samples: 40157554018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/02/17 12:01	

LABORATORY CONTROL SAMPLE: 1580594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1580595 1580596

Parameter	Units	40157599001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	104	100	100	210	211	106	106	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1580597 1580598

Parameter	Units	40157565001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	230	200	200	437	442	104	106	90-110	1	15	

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

QC Batch: 269346 | Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 | Analysis Description: 351.2 TKN
Associated Lab Samples: 40157554018

METHOD BLANK: 1582541 | Matrix: Water
Associated Lab Samples: 40157554018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.22	0.73	10/03/17 19:21	

LABORATORY CONTROL SAMPLE: 1582542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582543 1582544

Parameter	Units	40157554018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	<0.22	5	5	4.5	4.4	90	87	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582545 1582546

Parameter	Units	40157561001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	2.7	5	5	7.8	7.9	101	103	90-110	1	20	

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QUALITY CONTROL DATA

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

QC Batch: 269965 | Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 | Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 40157554018

METHOD BLANK: 1586598 | Matrix: Water
Associated Lab Samples: 40157554018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.052	0.40	10/10/17 13:58	

LABORATORY CONTROL SAMPLE: 1586599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586600 1586601

Parameter	Units	40157864002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.11J	5	5	4.9	4.6	95	91	90-110	5	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALIFIERS

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Analyte was measured in the associated method blank at a concentration of -0.079 mg/L.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-3005011.20 HYDRITE CHEMICA
Pace Project No.: 40157554

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157554001	**P-154**	EPA 8260	268988		
40157554002	**P-156**	EPA 8260	268988		
40157554003	**P-116**	EPA 8260	268988		
40157554004	**MW-87**	EPA 8260	268988		
40157554005	**P-88**	EPA 8260	268988		
40157554006	**P-135**	EPA 8260	268988		
40157554007	**P-140**	EPA 8260	268988		
40157554008	**MW-86**	EPA 8260	268988		
40157554009	**MW-86 DUP**	EPA 8260	268988		
40157554010	**P-68**	EPA 8260	268988		
40157554011	**P-161**	EPA 8260	268988		
40157554012	**P-129**	EPA 8260	268988		
40157554013	**PDB-FB**	EPA 8260	268988		
40157554015	**P-130**	EPA 8260	268988		
40157554016	**P-128**	EPA 8260	268988		
40157554017	**P-164**	EPA 8260	268988		
40157554018	**EFFLUENT**	EPA 8260	268988		
40157554019	**TB-2**	EPA 8260	268988		
40157554018	**EFFLUENT**	SM 2540D	269323		
40157554018	**EFFLUENT**	SM 5210B	269017	SM 5210B	269454
40157554018	**EFFLUENT**	EPA 300.0	269019		
40157554018	**EFFLUENT**	EPA 351.2	269346	EPA 351.2	269397
40157554018	**EFFLUENT**	EPA 365.4	269965	EPA 365.4	270033

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

4015754

(Please Print Clearly)

Company Name:	TETRA TECH
Branch/Location:	BROOKFIELD
Project Contact:	MARK MATTHEY
Phone:	(262) 792-1282
Project Number:	117-300501.20
Project Name:	HYDRITE CHEMICAL
Project State:	WI.
Sampled By (Print):	TODD THOMSON
Sampled By (Sign):	
PO #:	
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	MARK MATTHEY
Mail To Company:	TETRA TECH
Mail To Address:	175N CORPORATE DR. SUITE 100 BROOKFIELD WI 53045
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): Y/N — N
PRESERVATION (CODE)*: Pick Letter — B

Analyses Requested: VOCs 8260

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	P-154	9-26	11:20	GW	3		3-40mL VB	
002	P-156	9-26	11:30		3			
003	P-116	9-26	12:00		3			
004	MW-87	9-26	13:30		3			
005	P-88	9-26	13:40		3			
006	P-135	9-26	14:10		3			
007	P-140	9-26	14:30		3			
008	MW-86	9-26	15:00		3			
009	MW-86 DUP	9-26	15:05		3			
010	P-68	9-26	15:30		3			
011	P-161	9-27	11:10		3			
012	P-129	9-27	11:40		3			
013	PDB-FB	9-27	13:10	V	3			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: STANDARD

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	9-27-17 17:30		
CSLogistics	9/28/17 1015	[signature]	9/28/17 1015

PACE Project No.: 4015754

Receipt Temp = 1.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

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MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2

40157554

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	TETRA TECH
Branch/Location:	BROOKFIELD
Project Contact:	MARK MATTHEY
Phone:	(262) 792-1282
Project Number:	117-300511.20
Project Name:	HYDRE CHEMICAL
Project State:	WI
Sampled By (Print):	TODD THOMSON
Sampled By (Sign):	
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	MARK MATTHEY
Mail To Company:	TETRA TECH
Mail To Address:	1515 CORPORATE DR SUITE 100 BROOKFIELD, WI 53045
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Vis Tds, 8260	Vocs 524.2	CBOD	TSS	CHLORIDE	TKN & PO4	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
Y/N					N	N	N	N	N	N			
Pick Letter					B	B+J	A	A	A	C			
014	VILLAGE WELL No. 2	9-27	09:10	GW		3						3-40mL vials J	
015	P-130	9-27	10:50		3							3-40mL B	
016	P-128	9-27	12:55		3								
017	P-164	9-27	13:40		3								
018	EFFLUENT	9-27	14:10	V	3		1	1	1	1		2-1Lp A, 2-250mLp AC	
019	TB-2	—	—	RT	~~3~~ 2						LAB PREPARED	2-40mL B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: STANDARD

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	9-27-17 17:30		
CS Logistics	9/28/17 1015	[signature]	9/28/17 1015

PACE Project No. 40157554

Receipt Temp = Rox °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

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Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 40157554**

40157554

Client Name: Tetra Tech

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #: 3237.092717

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: Rot /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 9/28/17
Initials: SSM

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☐Yes ☒No ☐N/A	8. No ms/msD vol. SSM 9/28/17
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☒Yes ☐No ☐N/A	13. ☐ HNO3 ☒ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14.
Trip Blank Present:	☒Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 386		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 9-28-17